

150 Mineral Spring Drive Dover, New Jersey 07801 Phone (201) 361-3600

LETTER OF TRANSMITTAL

Job No.:

		ne (201) 361-3600		Date:	7/31/95	Job No.: 94039 T1
	FA	X (201) 361-3800		Attention	Joseph J. Nowak	ويور بي
				Re:	Hexcel Corporation	
: NJDEP-I	BEECRA				Lodi Borough, Bergen	County, NJ
	State Stree	et			ISRA Case No. 86009	
	NJ 08625					
						
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	James Hig	guon			·	CDMC Decument

Date:



150 Mineral Spring Drive Dover. New Jersey 07801 201 361-3600 FAX 361-3800

July 31, 1995

Joseph J. Nowak
New Jersey Department of Environmental Protection
Bureau of Environmental Evaluation and Cleanup Responsibility Assessment
401 East State Street
Trenton, NJ 08625

SUBJ: Hexcel Corporation
Lodi Borough, Bergen County, New Jersey
ISRA Case No. 86009
GEO File No. 94039

Dear Mr. Nowak:

On behalf of Hexcel Corporation (Hexcel), the following is the progress report of activities carried out during April, May and June of 1995. This quarterly report is prepared in accordance with the Industrial Site Recovery Act (ISRA) requirements for the former Hexcel facility in Lodi, New Jersey. Also included in this report are responses to the New Jersey Department of Environmental Protection (NJDEP) letter of June 12, 1995. Appendix A provides an item-by-item listing of Hexcel's responses, cross-referenced to the text of this progress report.

The following topics are discussed in this progress report:

- 1. Ground Water/DNAPL/LNAPL Monitoring
- 2. DNAPL Recovery
- 3. LNAPL Recovery
- 4. Treatment of Basement Seepage Water
- 5. Sewer Connection
- 6. Off-Site Investigation
- 7. Waste Disposal Documentation
- 8. Schedule and Cost Estimates
- 9. Update on Effects of Explosion at Neighboring Property

1. Ground Water/DNAPL/LNAPL Monitoring

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In this section, we report the results of our quarterly monitoring done in April 1995, and our monthly monitoring performed in May and June 1995. We also present several modifications to the approved LNAPL and DNAPL monitoring plans.

On April 10, 1995, Hexcel conducted quarterly ground water elevation, DNAPL and LNAPL monitoring in accordance with the monitoring plans. Results are tabulated in Table 1 and illustrated in Figures 1 and 2, which depict shallow and deep ground water elevation contours, respectively. Contour Map Reporting forms are enclosed for each of the contour maps. Table 2 contains a summary of well construction data. Figures 1 and 2, Tables 1 and 2, and the reporting forms are located in Appendix B.

On May 10 and June 6, 1995, Hexcel conducted monthly DNAPL and LNAPL monitoring in accordance with the monitoring plans. Results are provided in Tables 3 and 4, located in Appendix C.

Criteria for modifying the DNAPL and LNAPL plans were presented in our October 24, 1994 letter and subsequently approved by the NJDEP in their June 12, 1995 letter. Accordingly, this quarter, we have made the following modifications to the DNAPL and LNAPL monitoring plans:

- P-2 and MW-23: Shifted from quarterly to monthly LNAPL monitoring after trace LNAPL was detected in May 1995.
- RW7-5: Shifted from quarterly to monthly DNAPL monitoring after trace DNAPL was detected in April 1995.
- MW-6, CW-12 and CW-16: All three wells are already included in the DNAPL monitoring plan and were added to the LNAPL monitoring plan after trace LNAPL was detected in June 1995.

No other modifications have been made to either the DNAPL or LNAPL monitoring plans.

Review of VO data versus DNAPL solubility

Hexcel has reviewed the historical volatile organic compound results for all the monitoring (MW-series), control (CW-series) and recovery (RW-series) wells in response to the NJDEP's request. In its June 12, 1995 letter, the NJDEP requested that Hexcel include wells containing any DNAPL compound in excess of 1% of its solubility in the



monthly monitoring program for a minimum of three months. If no DNAPL was detected during the first three months, the monitoring frequency would be reduced to quarterly.

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DNAPL compounds and their respective solubilities are listed in Table 5 in Appendix D. Table 6 lists the wells which have exceeded the 1% solubility criteria for one or more DNAPL compounds, along with the respective compounds and their concentrations. For the wells which have been sampled more than once, the most recent analytical results have been used for comparison with the solubility criteria.

The wells exceeding the 1% solubility criteria for DNAPL monitoring are summarized in Table 7. These wells can be subdivided into the following categories:

- 1. Wells are already part of the monthly monitoring program (MW-6, 8, 26 and RW6-1); therefore, no changes are necessary to comply with the NJDEP's request.
- 2. Wells are part of the quarterly monitoring program and no DNAPL has been detected for the past 3 quarters (MW-4, 10, 17, 18, 22, 27, CW-14 and RW6-2); therefore, Hexcel need not alter the frequency of the monitoring from quarterly to monthly.
- 3. Wells are not part of the monthly or quarterly monitoring program (CW-3, 5, 9, 11, 15, 18, 21 and RW6-3). The status of these eight wells with regard to the NJDEP's request is discussed in the following paragraphs.

Of the eight wells listed in Category 3, seven contain ground water recovery equipment (CW-3, 5, 9, 11, 15, 18 and 21). The recovery equipment was temporarily removed from these wells in July 1993 for monitoring purposes and no DNAPL was detected in any of the wells at that time. The results are included in the well sampling logs contained in Appendix D. Given that no DNAPL was detected during the July 1993 monitoring event and that it is impractical to frequently dismantle the recovery system, Hexcel proposes to continue to exclude the seven "CW" series wells from both the monthly and quarterly monitoring programs.

Well RW6-3, which is the only other well listed in Category 3, will be included in the monthly monitoring program. If no DNAPL is detected during the first three months, the monitoring frequency will be reduced to quarterly.

2. DNAPL Recovery

A temporary DNAPL recovery program, consisting of manually recovering product from affected wells on a weekly basis, was initiated on October 20, 1994. After one month, the program's frequency was reduced to twice a month due to a reduction in the quantity of product recovered. Product recovery continued at the rate of at least twice



a month through the week of June 19, 1995. Results are summarized in Table 8, located in Appendix E.

In accordance with the NJDEP's June 12, 1995 letter, weekly product recovery was resumed the week of June 26, 1995. In the near future, wells containing DNAPL, even at trace quantities, are to be fitted with tubing to allow for product recovery using a peristaltic pump. Well MW-6 was fitted with tubing for pumped DNAPL recovery on March 2, 1995 and we have found this to be a more efficient and effective method of product recovery than using a bailer.

3. LNAPL Recovery

During the second quarter of 1995, three different methods were used to recover LNAPL from affected wells. The first consisted of a one piece hydrophobic filter/collector unit which was suspended in the well and intercepted the water surface; LNAPL passes through the filter and accumulates, by gravity, in the collector. The filter/collector unit is the "passive recovery device" referenced in previous progress reports. The second method of recovery was a sorbent pad which floats in the well. The third was manual recovery using a bailer.

The approved LNAPL recovery plan for CW-7 has been modified to include sorbent pads and bailed recovery. The approved plan specified the use of the filter/collector device; this has been replaced with a sorbent pad. In addition, Hexcel bails LNAPL from CW-7 on a weekly basis. Approximately 0.4 gallons of product were recovered from CW-7 during the second quarter of 1995 (see Table 8 located in Appendix E for details).

An unanticipated quantity of LNAPL was detected in CW-7 on June 28, 1995. Approximately 0.4 feet of product was measured; 1.5 quarts of LNAPL were bailed from the well. The filter/collector device positioned in CW-7 failed to collect all of the product; therefore, it was replaced with a sorbent pad on June 30. Hexcel will replace the sorbent pads as needed, bail product on a weekly basis, and assess whether additional modifications in the recovery program are necessary.

In accordance with the NJDEP's request to recover product at all wells containing LNAPL, Hexcel placed a sorbent pad in MW-6 on June 30. It is in the process of purchasing the necessary equipment to begin passive product recovery using sorbent pads at the other wells where trace quantities of LNAPL are present; that is, wells P-2, MW-23, RW1-1, CW-12 and CW-16.



4. Treatment of Basement Seepage Water

Basement seepage water continues to be treated on-site and is being disposed of off-site at the DuPont Chambers Works facility, Deepwater, New Jersey. Disposal documentation has been attached as Appendix F.

5. Sewer Connection

Progress on the sewer installation was delayed by the Napp explosion and its aftermath. Specifically, bid document preparation was delayed because a soil sampling event had to be postponed; the soil sampling data were necessary to complete the bid documents. Bid documents are being finalized and the contractor selection process has begun. We currently estimate that construction will begin mid-August, and we will be contracted discharge to the sewer line meaning september. Notes that the Stream. Encroachment Permit has been obtained it was issued by the NIDEP on April 6, 1995.

6. Off-Site Investigation

Hexcel is complying with the NJDEP's request to obtain ground water sampling data across the Saddle River from MW-8. Regarding the NJDEP's position that "MW-X" is approximately 200 feet too far south of MW-8, it appears as though there may be additional wells across the river, perhaps closer to MW-8. In a June 1, 1995 telephone conversation with Mr. Charles Pinto, owner of the property across the river from MW-8, Mr. Pinto indicated that the U.S. Army Corps of Engineers (Army Corps) may have installed several wells on his property as part of the lower Saddle River Flood Control Project. During the same telephone conversation, Mr. Pinto indicated that he would be willing to give Hexcel permission to perform a Geoprobe investigation on his property, if meeessary.

We have requested well construction data, chemical analysis data, and permission to sample monitoring wells installed by the Army Corps on Mr. Pinto's property. A copy of our June 30, 1995 letter to Mr. Reginald Perry of the Army Corps has been included as Appendix G. Upon receipt of the requested information, GEO will evaluate whether the existing data, ground water sampling via the Army Corps' wells, or a Geoprobe sampler is necessary to comply with the NJDEP's request.

Hexcel will explore the possibility of obtaining additional monitoring well data from the Napp property. We presume that monitoring wells will be required for Napp's cleanup program and will seek access to the data from those wells.



7. Waste Disposal Documentation

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Enclosed as Appendix F are manifests and a summary table for waste disposal during April, May and June 1995.

8. Schedule and Cost Estimates

Table 9 located in Appendix H presents an updated estimate of the schedule of remaining remedial activities. There has been no change to date in the estimate of cleanup costs.

The explosion at the neighboring Napp Technology facility in April and subsequent flooding of the Building 1 basement led to an overall setback in our schedule of approximately two months. In addition, the soil investigation and sediment sampling are being held in abeyance pending review of the results of the Napp investigation. These adjustments are reflected in the enclosed revised schedule. Note that the enclosed estimated schedule also includes lines for proposal submittal and NJDEP review of the design of the permanent recovery system, as requested in the NJDEP letter of June 12, 1995.

9. Update on Effects of Explosion at Neighboring Property

The following is a chronological summary of events regarding the explosion/fire at the neighboring Napp facility, including a description of the effects of these events on Hexcel's treatment system. The immediate effects were a shutdown of the ground water treatment system and a delay of the soil sampling for the sewer line.

- Napp explosion and fire. The soil sampling along the proposed sewer line that was originally scheduled for this date was postponed.
- 4/21-4/24 Basements of Building all and adjacents steame tunnel are shooted with as minimum of 100:000 gallons of water. As a result of the flooding, the ground water recovery system was incapacitated.

Holding tank H-1, part of Hexcel's treatment system and located in the basement, is empty. The flooding causes the empty tank to float; piping connected to the tank is damaged. In addition, a non-submersible pump is submerged and damaged.

- Napp's contractor begins dewatering basement and steam tunnel. Flood water from basement is stored on-site in six, 20,000 gallon frac tanks.
- 5/8 Napp's contractor cleans steam tunnel



Napp's contractor cleans/removes sludge from basement.

5/24, 6/9, 6/23 Hexcel's contractor makes plumbing and electrical repairs to treatment system. System is fully operational on 6/23.

5/30 Soils samples were collected alongs the proposed sewer line. This sampling had been postponed from 4/21 due to the Napp explosion.

6/14-6/30 Frac tanks are dewatered and transported off-site by Napp's contractor.

One tank remains on-site on 6/30.

We will continue to provide quarterly progress reports in accordance with ISRA requirements. Please call if you have any questions or need additional information.

Sincerely,

GEO ENGINEERING, INC.

Marjorie A. Piette

Project Manager

MAP/lll Enclosures

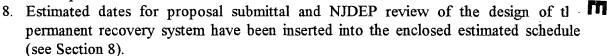
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A. William Nosil Lisa Bromberg, Esq. James Higdon Appendix A

Checklist of

Responses to Items in NJDEP June 12, 1995 Letter

- 1. No response needed.
- 2. No response needed.
- 3. No response needed.
- 4. We have reviewed historical volatile organic results and compared them with the effective solubility to refine the DNAPL monitoring program (see Section 1 of the July 1995 progress report).
- 5. No response needed.
- 6. No response needed.
- 7. No response needed.



- 9. We understand that the NJDEP may require automatic LNAPL pumps if thicker LNAPL layers are present when ground water is pumped. This will be considered after the permanent recovery system is operational.
- 10. No response needed.
- 11. Hexcel will explore the possibility of obtaining additional monitor well data from the Napp property. We presume that monitoring wells will be required for Napp's cleanup program and will seek access to the data from those wells (see Section 6).
- 12. Hexcel installed tubing in well MW-6, the one well that has consistently yielded DNAPL, on March 2, 1995. We have found that pumping from the bottom of the well is more efficient and effective than using a bailer. We will, therefore, also pump from the bottom of additional wells that may be added to the DNAPL recovery program (see Section 2).
- 13. No response needed.
- 14. We have resumed weekly product recovery, starting with the week of June 26, 1995 (see Section 2).
- 15. No response needed.
- 16. We will henceforth report whether product is DNAPL or LNAPL and the presence of product even at trace levels will trigger the addition of wells to our monthly monitoring and product recovery programs (see Sections 1, 2 and 3).
- 17. Progress on the sewer installation was delayed by the Napp explosion and its aftermath. The current scheduling estimate is indicated on the updated schedule table. The Stream Encroachment Permit was issued on April 6, 1995 (see Sections 5 and 8).
- 18. We are seeking ground water data on the opposite side of the Saddle River (see Section 6).
- 19. No response needed.



- 20. A summary of the known effects of the Napp Technologies explosion on Hexcel's cleanup activities is included in Section 9.
- 21. No response needed.
- 22. No response needed.
- 23. No response needed.
- 24. No response needed.
- 25. No response needed.
- 26. There have been no changes to the cost estimate (see Section 8).

Appendix B

Former Hexcel Facility

Lodi, New Jersey

-All measurements in feet -All elevations in feet (NGVD)-

GEO Engineering, Inc.

July 1995

File: 94039/wldata/wlevels.xls

Entered by: MAW Checked by: SJA

Well ID	Type	Depth to		Product		Depth to	Elevation		****************	A	on (all 4" diameter unless otherwise noted)
 		Water	DNAPL	LNAPL	Thickness	Bottom	Top of Casing	Elevation	Туре	Casing	Comments
RW Series:				5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5							
RW1-1	shall.	5.76				14.29	28.38	22.62	flush	s.steel	Trace LNAPL in clear bailer survey
RW6-1	shall.	4.18	13.54		0.22	13.76	28.84	24.66	flush	s.steel	Product on probe (DNAPL)
RW6-2	shall.	4.39				14.82	29.34	24.95	flush	s.steel	White, solid, granular substance on probe botton
RW6-3	shall.						28.72		flush	s.steel	Well not included in quarterly monitoring plan
RW7-1	shall.	5.96				16.60	26.25	20.29	flush	s.steel	Product on probe (DNAPL)
RW7-2	shall.	6.50				16.82	26.48	19.98	flush	s.steel	
RW7-3	shall.	6.70	_			17.30	26.78	20.08	flush	s.steel	
RW7-4	shall.	7.04	18.66	_	0.44	19.10	27.11	20.07	flush	s.steel	Product on probe (DNAPL)
RW7-5	shall.	7.62				19.35	27.57	19.95	flush	s.steel	Trace product on probe (DNAPL)
RW7-6	shall.	6.70				15.00	26.48	19.78	flush	s.steel	
RW7-7	shall.	6.96		-		14.90	26.89	19.93	flush	s.steel	
RW7-8	shall.	5.86				14.98	25.90	20.04	flush	s.steel	
RW7-9	shall.	7.13			-	16.10	26.87	19.74	flush	s.steel	
RW7-10	shall.	7.12				14.12	26.10	18.98	flush	s.steel	
RW15-1	shall.	8.08				14.92	29.95	21.87	flush	s.steel	Resurveyed by GEO *
RW15-2	shall.						30.15		flush	s.steel	Resurveyed by GEO *
	•••••						•		***************************************	<u></u>	Well not included in quarterly monitoring plan
Series:											
P-1	shall.	7.63	-			10.03	30.09	22.46	flush	1.5" pvc	Resurveyed by GEO; diam. corrected to 1.5" *
P-2	shall.	8.32		-		11.30	30.19	21.87	flush	1.5" pvc	Resurveyed by GEO; diam. corrected to 1.5" *

Former Hexcel Facility

Lodi, New Jersey

-All measurements in feet -All elevations in feet (NGVD)-

GEO Engineering, Inc.

July 1995

File: 94039/wldata/wlevels.xls

Entered by: MAW Checked by: SJA

Well ID	Туре	Depth to		Product	Product	Depth to	Elevation		***************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	on (all 4" diameter unless otherwise noted)
		Water	DNAPL	LNAPL	Thickness	Bottom	Top of Casing	Elevation	Туре	Casing	Comments
W Series:											
CW-1	shali.	7.26				11.48	29.77	22.51	flush	s.steel	
CW-2	shall.						29.51		flush	s.steel	Well not included in quarterly monitoring plan
CW-3	recov.	*******************************	***************************************	***************************************			29.72	***************************************	flush	s.steel	Well not included in quarterly monitoring plan
CW-4	shall.	6.24				10.98	29.00	22.76	flush	s.steel	
CW-5	recov.			***************************************			28.67		flush	s.steel	Well not included in quarterly monitoring plan
CW-6	shall.						28.93		flush	s.steel	Well not included in quarterly monitoring plar
CW-7	shall.	7.06		-		14.00	26.13	19.07	flush	s.steel	Product on probe (LNAPL)
CW-8	shall.	7.90				13.90	26.77	18.87	flush	s.steel	
CW-9	recov.						26.37		flush	s.steel	Well not included in quarterly monitoring plan
CW-10	shall.	7.15				10.24	25.91	18.76	flush	s.steel	
CW-11	recov.	,		••••••			25.74		vaultbox	s.steel	Well not included in quarterly monitoring plan
CW-12	shall.	6.80	13.80	-	0.18	13.98	25.71	18.91	flush	s.steel	Product on probe and probe tape (DNAPL, LNAPL)
CW-13	shall.			***************************************			26.05	••••	flush	s.steel	Well not included in quarterly monitoring plan
CW-14	shall.	7.78			_	13.90	26.37	18.59	flush	s.steel	\$
CW-15	recov.					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	26.31		flush	s.steel	Well not included in quarterly monitoring plan
CW-16	shall.	7.03				13.92	26.45	19.42	flush	s.steel	Product on probe (DNAPL)
CW-17	shall.						26.25	,	flush	s.steel	Not accessible due to drums
CW-18	recov.						26.61		flush	s.steel	Well not included in quarterly monitoring plan
CW-19	shall.						26.50		flush	s.steel	Well not included in quarterly monitoring plan
CW-20	shall.						26.74		flush	s.steel	Well not included in quarterly monitoring plan
CW-21	recov.						26.77		flush	s.steel	Well not included in quarterly monitoring plan
CW-22	shall.					,	26.35		flush	s.steel	Well not included in quarterly monitoring plan

Former Hexcel Facility

Lodi, New Jersey

-All measurements in feet -All elevations in feet (NGVD)-

GEO Engineering, Inc.

July 1995

File: 94039/wldata/wlevels.xls

Entered by: MAW Checked by: SJA

	ell ID	Туре		DALABY	TATADI	Product	D-M	Towns	F14:	T		ion (all 4" diameter unless otherwise noted)
			Water	DNAPL	LNAPL	Thickness	Bottom	Casing	Elevation	Туре	Casing	Comments
IW S	eries:											
7	MW-1	deep	10.19				23.54	32.42	22.23	stickup	pvc	
	MW-2	shall.	8.89				10.27	31.00	22.11	stickup	pvc	
	MW-3	deep	10.28				30.77	31.13	20.85	stickup	pvc	
	MW-4	shall.	8.04				9.92	32.33	24.29	stickup	pvc	
<u></u>	MW-5	deep	11.12				28.34	32.54	21.42	stickup	pvc	
	MW-6	shall.	10.28		_		18.30	30.74	20.46	stickup	pvc	Trace product on probe (DNAPL)
	MW-7	deep	9.66		_		32.90	30.68	21.02	stickup	pvc	
	MW-8	shall.	11.12				17.36	30.26	19.14	stickup	pvc	Product on probe (DNAPL)
	MW-9	deep	8.82				29.60	29.83	21.01	stickup	pvc	
<u></u>	MW-10	shall.	11.94				16.78	30.83	18.89	stickup	pvc	
	MW-11	deep	10.02				33.36	30.78	20.76	stickup	pvc	
	MW-12	shall.	10.61				16.95	31.01	20.40	stickup	pvc	
	MW-13	deep	9.76		_		32.94	31.16	21.40	stickup	pvc	
	MW-14	shall.	10.62				15.61	30.70	20.08	stickup	pvc	
<u></u>	MW-15	deep	8.92				25.61	30.77	21.85	stickup	pvc	
	MW-16	shall.	7.99				12.58	29.69	21.70	stickup	pvc	
	MW-17	shall.	9.40		_		14.10	31.53	22.13	stickup @		
	MW-18	shall.	9.74				11.36	32.23	22.49	stickup	pvc	
	MW-19	deep	7.19				26.50	29.08	21.89	stickup	pvc	
	MW-20	shall.	4.99				20.06	27.95	22.96	flush	pvc	T

Former Hexcel Facility

Lodi, New Jersey

-All measurements in feet -All elevations in feet (NGVD)-

GEO Engineering, Inc.

July 1995

File: 94039/wldata/wlevels.xls

Entered by: MAW Checked by: SJA

Well ID	Туре	Depth to	Depth to	Product	Product	Depth to	Elevation	Water	Well	Constructi	ion (all 4" diameter unless otherwise noted)
		Water	DNAPL	LNAPL	Thickness	Bottom	Top of Casing	Elevation		Casing	Comments
MW Series:											
MW-21	shall.	8.94				15.12	30.67	21.73	stickup	pvc	
MW-22	shall.	6.08				8.23	28.45	22.37	flush	pvc	
MW-23	shall.	5.21				9.71	27.51	22.30	flush	pvc	
MW-24	shall.	4.62				9.50	26.51	21.89	flush	pvc	
MW-25	shall.	7.14				12.73	26.03	18.89	flush	pvc	
MW-26	deep	7.41	17.70		0.24	17.94	28.85	21.44	flush	2" pvc	Product on probe (DNAPL)
MW-27	shall.	7.13				12.54	31.43	24.30	stickup	pvc	
MW-28	shall.	9.96		-		14.78	29.68	19.72	stickup	pvc	
MW-29	shall.	5.06				9.35	27.32	22.26	flush	pvc	
MW-30	shall.	5.75				10.48	28.08	22.33	flush	pvc	
MW-31	shall.	5.80				10.66	27.95	22.15	flush	pvc	
MW-32	shall.	9.08		-		11.29	32.51	23.43	stickup	pvc	
MW-33	shall.	9.96		_		16.98	31.72	21.76	stickup	pvc	

NOTES:

- Not detected by product interface meter.
- * Wells RW15-1, RW15-2, P-1 and P-2 were resurveyed by GEO and there were differences from the previous top of casing elevations. The corrected elevations are indicated in the above table. In addition, the interior diameter of wells P-1 and P-2 was found to measure 1.5", not 2" as previously reported.
- @ Well MW-17 is a stick-up, not a flush mount as previously reported.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

TABLE 2: SUMMARY OF WELL CONSTRUCTION DATA

Former Hexcel Facility Lodi, New Jersey

-All measurements in feet -All elevations in feet (NGVD)-

GEO Engineering, Inc.

July 1995

File: 94039/wldata/wellscrn.xls

Sheet: Modified

Entered by: SG; Checked by: SJA

Well ID	Туре	Ground Elevation	Elevation Top of	Depth to Bottom	Length of	Elevation Top of	Depth to Water	Water Elevation	-	Vell ruction *	Insta	llation	Water Elv. > Top of Scree
			Casing	(From GS)	Screen	Screen	(04/10/95)		Туре	Casing	Date	Ву	Elv.
W Series:								:				-	
RW1-1	shall.	28.67	28.38	15.00	10	23.67	5.76	22.62	flush	s.steel	10/91	Heritage	No
RW6-1	shall.	29.28	28.84	14.00	5	20.28	4.18	24.66	flush	s.steel	8/90	Heritage	Yes
RW6-2	shall.	U	29.34	16.00	5	U	4.39	24.95	flush	s.steel	8/90	Heritage	U
RW6-3	shall.	29.02	28.72	8.60	5	25.42	NI	NI	flush	s.steel	8/90	Heritage	NI
RW7-1	shall.	26.94	26.25	18.00	5	13.94	5.96	20.29	flush	s.steel	8/90	Heritage	Yes
RW7-2	shall.	27.07	26.48	17.50	5	14.57	6.50	19.98	flush	s.steel	8/90	Heritage	Yes
RW7-3	shall.	27.17	26.78	17.50	5	14.67	6.70	20.08	flush	s.steel	8/90	Heritage	Yes
RW7-4	shall.	27.60	27.11	19.00	5	13.60	7.04	20.07	flush	s.steel	8/90	Heritage	Yes
RW7-5	shall.	27.97	27.57	20.00	5	12.97	7.62	19.95	flush	s.steel	9/90	Heritage	Yes
RW7-6	shall.	27.10	26.48	15.00	5	17.10	6.70	19.78	flush	s.steel	9/90	Heritage	Yes
RW7-7	shall.	27.25	26.89	15.00	5	17.25	6.96	19.93	flush	s.steel	9/90	Heritage	Yes
RW7-8	shall.	26.71	25.90	15.00	5	16.71	5.86	20.04	flush	s.steel	9/90	Heritage	Yes
RW7-9	shall.	27.18	26.87	17.00	5	15.18	7.13	19.74	flush	s.steel	2/91	Heritage	Yes
RW7-10	shall.	26.50	26.10	15.00	5	16.50	7.12	18.98	flush	s.steel	2/91	Heritage	Yes
RW15-1	shall.	30.43	29.95	14.75	10	25.68	8.08	21.87	flush	s.steel	8/90	Heritage	No
RW15-2	shall.	30.37	30.15	14.00	10	26.37	NI	NI	flush	s.steel	8/90	Heritage	NI
Series:													
P-1	shall.	Ŭ	30.09	U	U	U	7.63	22.46	flush	1.5" pvc	U	U	U
P-2	shall.	U	30.19	U	U	U	8.32	21.87		1.5" pvc	U	U	U

TABLE 2: SUMMARY OF WELL CONSTRUCTION DATA

Former Hexcel Facility Lodi, New Jersey

-All measurements in feet -All elevations in feet (NGVD)-

GEO Engineering, Inc.

July 1995

File: 94039/wldata/wellscrn.xls

Sheet: Modified

Entered by: SG; Checked by: SJA

Well ID	Туре	Ground Elevation	Elevation Top of	Depth to Bottom	Length of	Elevation Top of	Depth to Water	Water Elevation		ell uction *	Insta	llation	Water Elv. > Top of Scree
			Casing	(From GS)	Screen	Screen	(04/10/95)		Туре	Casing	Date	Ву	Elv.
CW Series:										:		4 4 9 9 9 9 9 9	
CW-1	shall.	30.27	29.77	12.00	5	23.27	7.26	22.51	flush	s.steel	9/90	Heritage	No
CW-2	shall.	30.11	29.51	12.00	5	23.11	NI	NI	flush	s.steel	9/90	Heritage	NI
CW-3	recov.	U	29.72	12.00	5	U	NI	NI	flush	s.steel	9/90	Heritage	NI
CW-4	shall.	29.10	29.00	11.50	5	22.60	6.24	22.76	flush	s.steel	7/90	Heritage	Yes
CW-5	recov.	28.89	28.67	11.50	5	22.39	NI	NI	flush	s.steel	7/90	Heritage	NI
CW-6	shall.	29.25	28.93	9.00	5	25.25	NI	NI	flush	s.steel	9/90	Heritage	NI
CW-7	shall.	26.70	26.13	14.00	5	17.70	7.06	19.07	flush	s.steel	8/90	Heritage	Yes
CW-8	shall.	26.70	26.77	14.00	5	17.70	7.90	18.87	flush	s.steel	8/90	Heritage	Yes
CW-9	recov.	26.60	26.37	14.00	5	17.60	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-10	shall.	26.50	25.91	14.00	5	17.50	7.15	18.76	flush	s.steel	8/90	Heritage	Yes
CW-11	recov.	26.60	25.74	14.00	5	17.60	NI	NI	vaultbox	s.steel	8/90	Heritage	NI
CW-12	shall.	26.51	25.71	14.00	5	17.51	6.80	18.91	flush	s.steel	8/90	Heritage	Yes
CW-13	shall.	26.60	26.05	14.00	5	17.60	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-14	shall.	26.70	26.37	14.00	5	17.70	7.78	18.59	flush	s.steel	8/90	Heritage	Yes
CW-15	recov.	26.90	26.31	14.00	5	17.90	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-16	shall.	27.00	26.45	14.00	5	18.00	7.03	19.42	flush	s.steel	8/90	Heritage	Yes
CW-17	shall.	27.10	26.25	14.00	5	18.10	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-18	recov.	27.20	26.61	14.00	5	18.20	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-19	shall.	27.20	26.50	14.00	5	18.20	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-20	shall.	27.30	26.74	14.00	5	18.30	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-21	recov.	27.40	26.77	14.00	5	18.40	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-22	shall.	27.30	26.35	14.00	5	18.30	NI	NI	flush	s.steel	8/90	Heritage	NI

TABLE 2: SUMMARY OF WELL CONSTRUCTION DATA Former Hexcel Facility

Lodi, New Jersey

-All measurements in feet -All elevations in feet (NGVD)-

GEO Engineering, Inc.

July 1995

File: 94039/wldata/wellscrn.xls

Sheet: Modified

Entered by: SG; Checked by: SJA

Well ID	Туре	Ground Elevation	Elevation Top of	Depth to Bottom	Length of	Elevation Top of	Depth to Water	Water Elevation		ell uction *	Insta	llation	Water Elv. > Top of Scree
			Casing	(From GS)	Screen	Screen	(04/10/95)		Туре	Casing	Date	Ву	Elv.
/IW Series:													
MW-1	deep	29.03	32.42	20.15	5	13.88	10.19	22.23	stickup	pvc	7/88	Environ	Yes
MW-2	shall.	27.90	31.00	6.77	5	26.13	8.89	22.11	stickup	pvc	8/88	Environ	No
MW-3	deep	27.84	31.13	27.54	5	5.30	10.28	20.85	stickup	pvc	8/88	Environ	Yes
MW-4	shall.	29.02	32.33	6.53	5	27.49	8.04	24.29	stickup	pvc	8/88	Environ	No
MW-5	deep	29.03	32.54	24.91	5	9.12	11.12	21.42	stickup	pvc	8/88	Environ	Yes
MW-6	shall.	27.14	30.74	15.02	10	22.12	10.28	20.46	stickup	pvc	8/88	Environ	No
MW-7	deep	27.18	30.68	29.63	5	2.55	9.66	21.02	stickup	pvc	7/88	Environ	Yes
MW-8	shall.	26.92	30.26	13.94	10	22.98	11.12	19.14	stickup	pvc	8/88	Environ	No
MW-9	deep	26.89	29.83	26.80	5	5.09	8.82	21.01	stickup	pvc	7/88	Environ	Yes
MW-10	shall.	27.33	30.83	13.52	11	24.81	11.94	18.89	stickup	pvc	8/88	Environ	No
MW-11	deep	27.28	30.78	30.42	10	6.86	10.02	20.76	stickup	pvc	7/88	Environ	Yes
MW-12	shall.	27.62	31.01	13.57	10	24.05	10.61	20.40	stickup	pvc	8/88	Environ	No
MW-13	deep	27.63	31.16	29.74	5	2.89	9.76	21.40	stickup	pvc	7/88	Environ	Yes
MW-14	shall.	27.12	30.70	11.94	9	24.18	10.62	20.08	stickup	pvc	8/88	Environ	No
MW-15	deep	27.17	30.77	22.04	5	10.13	8.92	21.85	stickup	pvc	7/88	Environ	Yes
MW-16	shall.	26.71	29.69	9.57	5	22.14	7.99	21.70	stickup	pvc	8/88	Environ	No
MW-17	shall.	29.10	31.53	12.00	8	25.10	9.40	22.13	stickup	pvc	1/89	Environ	No
MW-18	shall.	29.04	32.23	8.07	5	25.97	9.74	22.49	stickup	pvc	8/88	Environ	No
MW-19	deep	27.30	29.08	25.00	5	7.30	7.19	21.89	stickup	pvc	1/89	Environ	Yes
MW-20	shall.	28.50	27.95	20.00	5	13.50	4.99	22.96	flush	pvc	11/90	Heritage	Yes

TABLE 2: SUMMARY OF WELL CONSTRUCTION DATA

Former Hexcel Facility Lodi, New Jersey

-All measurements in feet -All elevations in feet (NGVD)-

GEO Engineering, Inc.

July 1995

File: 94039/wldata/wellscrn.xls

Sheet: Modified

Entered by: SG; Checked by: SJA

Well ID	Туре	Ground Elevation	Elevation Top of	Depth to Bottom	Length of	Elevation Top of	Depth to Water	Water Elevation		ell uction *	Instal	lation	Water Elv. > Top of Screen
			Casing	(From GS)	Screen	Screen	(04/10/95)		Туре	Casing	Date	Ву	Elv.
MW Series:													
MW-21	shall.	28.80	30.67	13.00	10	25.80	8.94	21.73	stickup	pvc	9/90	Heritage	No
MW-22	shall.	28.73	28.45	8.50	5	25.23	6.08	22.37	flush	pvc	12/90	Heritage	No
MW-23	shall.	27.83	27.51	10.00	5	22.83	5.21	22.30	flush	pvc	11/90	Heritage	No
MW-24	shall.	26.93	26.51	10.00	5	21.93	4.62	21.89	flush	pvc	11/90	Heritage	No
MW-25	shall.	26.47	26.03	13.00	10	23.47	7.14	18.89	flush	pvc	9/90	Heritage	No
MW-26	deep	29.26	28.85	19.00	2	12.26	7.41	21.44	flush	2" pvc	12/90	Heritage	Yes
MW-27	shall.	29.10	31.43	10.00	5	24.10	7.13	24.30	stickup	pvc	9/90	Heritage	Yes
MW-28	shall.	27.50	29.68	13.00	10	24.50	9.96	19.72	stickup	pvc	9/90	Heritage	No
MW-29	shall.	27.50	27.32	10.00	5	22.50	5.06	22.26	flush	pvc	2/91	Heritage	No
MW-30	shall.	28.25	28.08	11.00	5	22.25	5.75	22.33	flush	pvc	2/91	Heritage	Yes
MW-31	shall.	28.33	27.95	11.00	5	22.33	5.80	22.15	flush	pvc	2/91	Heritage	No
MW-32	shall.	U	32.51	8.00	6	U	9.08	23.43	stickup	pvc	4/92	Heritage	U
MW-33	shall.	U	31.72	14.00	10	U	9.96	21.76	stickup	pvc	4/92	Heritage	U

NOTES:

NI Well not included in the 4/10/95 Quarterly Monitoring or well was inaccessible on that date.

U Unknown.

* All wells 4" diameter unless otherwise noted.

None of the above wells were installed by GEO Engineering, Inc. The following sources were used in compiling this table:

- 1. Table titled "Well Data Master File", July 1991, prepared by Heritage Remediation/Engineering, Inc. Table was submitted by Heritage to the NJDEP in their July 1991 Progress Report.
- 2. Table titled "Monitoring Well Data", November 1988, prepared by ENVIRON Corporation.
- 3. Boring/Well Logs prepared by Heritage and ENVIRON.
- 4. Progress and/or other reports submitted by Heritage and/or ENVIRON to the NJDEP.
- 5. LNAPL Monitoring Forms submitted by Killam Associates/Consulting Engineers in their Progress Reports
- 6. Well elevation surveys performed by Boswell Engineering, Inc. and GEO.
- 7. Field measurements recorded by GEO.

Contour Map Reporting Form

	te Name: Former Hexcel Facility, Lodi, NJ oject No.: 94039	Figure No. (with contours of File: 1:\wldata\contours.co	•
1.	Did any surveyed well casing elevations change from the previous If yes, attach new "Well Certification -Form B" and identify the rechange (damage to casing, installation of recovery system in monitorial contents of the covery system in monitorial contents."	eason for the elevation	□Yes ⊠No
2.	Are there any monitor wells in unconfined aquifers in which the whigher than the top of the well screen? If yes, identify these wells.	ater table elevation is	⊠Yes □No
	Monitor wells for which the water table elevations are higher that are identified in Table 2: Summary of Well Construction Data pr		
3.	Are there any monitor wells present at the site but omitted from the Unless the omission of the well(s) has been previously approved by the omissions.	-	⊠Yes □No
	See October 24, 1994 progress report for justification of wells ch	osen for contouring.	
4.	Are there any monitor wells containing separate phase product dur		⊠Yes □No
	Were any of the monitor wells with separate phase product includ contour map? If yes show the formula used to correct the water table elevation.	ed in the ground water	⊠Yes □No
	Separate phase product, where measurable, consists of DNAPL, a correction is necessary.	not LNAPL; therefore, no	
5.	Has the ground water flow direction changed more than 45 degree ground water contour map? If yes, discuss the reasons for the change.	es from the previous	∐Yes ⊠No
6.	Has ground water mounding and/or depressions been identified in contour map? Unless the ground water mounds and/or depressions are caused by remediation system, discuss the reasons for this occurrence.	-	⊠Yes □No
	It is not known why mounding occurs in the vicinity of building 2		

7.	Are all the wells used in the contour map screened in the same water-bearing zone? If no, justify inclusion of those wells.	∑ Yes □No
8.	Were the ground water contours ☑ computer generated, ☐ computer aided, or ☐ hand-drawn? If computer aided or generated, identify the interpolation method(s) used.	
	Kriging Routine	

Contour Map Reporting Form

	te Name: Former Hexcel Facility, Lodi, NJ oject No.: 94039	File: l:\wldata\contourd.	
1.	Did any surveyed well casing elevations change from the previous so If yes, attach new "Well Certification -Form B" and identify the reachange (damage to casing, installation of recovery system in monitors).	ison for the elevation	∐Yes ⊠No
2.	Are there any monitor wells in unconfined aquifers in which the wa higher than the top of the well screen? If yes, identify these wells.	ter table elevation is	□Yes ⊠No
	Not applicable because confined aquifer.		
3.	Are there any monitor wells present at the site but omitted from the Unless the omission of the well(s) has been previously approved by the omissions.	-	□Yes ⊠No
4.	Are there any monitor wells containing separate phase product during Were any of the monitor wells with separate phase product include contour map? If yes show the formula used to correct the water table elevation. Separate phase product, where measurable, consists of DNAPL, no correction is necessary.	d in the ground water	⊠Yes □No ⊠Yes □No
5.	Has the ground water flow direction changed more than 45 degrees ground water contour map? If yes, discuss the reasons for the change.	s from the previous	□Yes ⊠No
6.	Has ground water mounding and/or depressions been identified in to contour map? Unless the ground water mounds and/or depressions are caused by remediation system, discuss the reasons for this occurrence.	-	□Yes ⊠No
7.	Are all the wells used in the contour map screened in the same water. If no, justify inclusion of those wells.	er-bearing zone?	⊠Yes □No

8.	Were the ground water contours
	□ computer generated, □ computer aided, or □ hand-drawn?
	If computer aided or generated, identify the interpolation method(s) used.
	Kriging method.

Appendix C

TABLE 3:

SUMMARY OF MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS

FOR MAY 1995

Former Hexcel Facility

Lodi, New Jersey

-All measurements in feet -All elevations in feet (NGVD)-

GEO Engineering, Inc.

July 1995

File: 94039/wldata/wlevels.xls

Entered by: SJA Check: SG

Well ID	Туре	Depth to Water	Depth to DNAPL	Product LNAPL	Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Comments
EASUREMENTS COLLECTED 5/10/95 (unless otherwise noted)									
CW-7	shallow	7.26				13.96	26.13	18.87	Product on probe (LNAPL)
CW-12	shallow	7.12				13.93	25.71	18.59	Product on probe (DNAPL, possible LNAPL also)
CW-16	shallow						26.45		Well inaccessible, covered by drums
MW-6	shallow	10.07				18.31	30.74	20.67	Trace product on probe (DNAPL)
MW-8	shallow	11.78				17.33	30.26	18.48	Product on probe (DNAPL)
MW-23 @	shallow	4.22	-			9.60	27.51	23.29	Product on probe (LNAPL)
MW-26	deep	7.82	_			17.89	28.85	21.03	
RW1-1	shallow	4.99				14.25	28.38	23.39	
RW6-1	shallow	3.87				13.74	28.84	24.97	
RW7-1	shallow	5.76				16.57	26.25	20.49	Trace product on probe (DNAPL)
RW7-4	shallow	7.00			-	19.09	27.11	20.11	Product on probe (DNAPL)
RW7-5	shallow						27.57		Well inadvertently omitted from monitoring event
P-2	shallow	7.14	1			11.98	30.06	22.92	Product on probe (LNAPL)

NOTES: - Not detected by product interface meter.

@ Measurement collected on May 9, 1995.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

TABLE 4:

SUMMARY OF MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS

FOR JUNE 1995

Former Hexcel Facility

Lodi, New Jersey

-All measurements in feet -All elevations in feet (NGVD)-

GEO Engineering, Inc.

July 1995

File: 94039/wldata/wlevels.xls

Entered by: SJA Check: SG

Well ID	Туре	Depth to Water	Depth to DNAPL	Product LNAPL	Product Thickness	Depth to Bottom	Elevation Top of	Water Elevation	Comments
			Li 		1		Casing		
ASUREMEN	TS COLLE	CIED 6/6/9	'5		***************************************	***************************************	***************************************	************	
CW-7	shallow	7.28 *		7.26	0.19	13.95	26.13	18.85	Measured DTW is 7.45; product on probe (LNAPL)
CW-12	shallow	7.37	<u></u>			13.91	25.71	18.34	Product on probe (LNAPL and DNAPL)
CW-16	shallow	7.91	13.72		0.15	13.87	26.45	18.54	Product on probe (LNAPL and DNAPL)
MW-6	shallow	10.24				18.30	30.74	20.50	Product on probe (DNAPL) **
MW-8	shallow	12.12				17.30	30.26	18.14	Product on probe (DNAPL)
MW-23	shallow	4.68				9.64	27.51	22.83	Trace product on probe (LNAPL)
MW-26	deep	7.67				17.88	28.85	21.18	Trace product on probe (DNAPL)
RW1-1	shallow	5.27				14.23	28.38	23.11	Trace product on probe (LNAPL)
RW6-1	shallow						28.84		Well inaccessible, covered by drums
RW7-1	shallow	5.98	16.35		0.20	16.55	26.25	20.27	Product on probe (DNAPL)
RW7-4	shallow	7.15			_	19.08	27.11	19.96	Product on probe (DNAPL)
RW7-5	shallow	7.72				19.31	27.57	19.85	Product on probe (DNAPL)
P-2	shallow	7.66		******************		11.92	30.06	22.40	Product on probe (LNAPL)

NOTES: - Not detected by product interface meter.

- * In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) (Product thickness * specific gravity).

 Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).
- ** A trace amount of LNAPL was detected at MW-6 during DNAPL recovery on June 28, 1995.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

Appendix D

TABLE 5: SOLUBILITY DATA FOR DNAPL COMPOUNDS

Former Hexcel Facility

Lodi, New Jersey

GEO Engineering, Inc.

July 1995

File: 94039/database/EXCDSOLB.xls

Sheet: Solubility Data BY: SG; Check: SJA

Constituent	Temperature	Solubility	1% of Solubility
	(Degree C)	(mg/L)	(mg/L)
1,1,1-Trichloroethane	20	4400	44
1,1,2,2-Tetrachloroethane	20	2900	29
1,1,2-Trichloroethane	20	4500	45
1,1-Dichloroethane	20	5500	55
1,1-Dichloroethene *	25	2500	25
1,2-Dichlorobenzene	20	100	1
1,2-Dichloroethane	20	8690	86.9
1,2-Dichloroprapane	20	2700	27
1,3-Dichlorobenzene	22	69	0.69
1,4-Dichlorobenzene	22	49	0.49
2-Chloroethylvinyl ether *	25	15000	150
Bromodichloromethane *	22	4700	47
Bromoform*	20	1000	10
Bromomethane	20	900	9
Carbon Disulfide	22	2300	23
Carbon Tetrachloride	20	800	8
Chlorobenzene	20	500	5
Chloroform	20	8000	80
cis-1,3-Dichloropropene*	25	2700	27
cis-1,2-Dichloroethene	20	800	8
Dibromochloromethane *	22	4400	44
Methylene Chloride	20	20000	200
Tetrachloroethene	25	150	1.5
trans-1,2-Dichloroethene	20	600	6
trans-1,3-Dichloropropene*	20	2800	28
Trichloroethene**	25	1100	11

NOTES

Unless otherwise specified, Solubility Data are from Handbook of Environmental Data on Organic Chemicals (Second Edition); Karel Verschueren, Van Nostrand Reinhold Company Inc., 1983.

- * Solubility Data from the On-line Toxicology Data Network, Specialized Information Services Division, The National Library of Medicine.
- ** Solubility Data from Chemodynamics: Environmental Movement of Chemicals in Air, Water, and Soil; L.J. Thibodeaux, John Wiley & Sons, Inc., 1979.

TABLE 6: WELLS WITH DNAPL COMPOUND CONCENTRATIONS EXCEEDING THE 1% SOLUBILITY CRITERIA*

Former Hexcel Facility Lodi, New Jersey GEO Engineering, Inc.

July 1995

File: 94039/database/EXCDSOLB.xls

Sheet: Well Data BY: SG; Check: SJA

		1		Date of
Well ID	Constituent	1% of Solubility	Concentration	Most Recent
		(mg/L)	(mg/L)	Sampling
MW-4	Tetrachloroethene	1.5	1.7	7/27/93
MW-6	Chlorobenzene	5	6.9	7/28/93
				}
MW-8	Chlorobenzene	5	69	7/27/93
	1,2-Dichlorobenzene	1	5.5	
	Tetrachloroethene	1.5	8.2	
MW-10	Chlorobenzene	5	7	7/28/93
				•
MW-17	1,2-Dichlorobenzene	1	1.2	7/27/93
	cis-1,2-Dichloroethene	8	35	
	Tetrachloroethene	1.5	2.6	
MW-18	Chlorobenzene	5	7.1	7/27/93
	1,4-Dichlorobenzene	0.49	0.94	į
***************************************	cis-1,2-Dichloroethene	8	42	
MW-22	1,2-Dichlorobenzene	1	2.1	7/27/93
ll l	cis-1,2-Dichloroethene	8	120	
ļ	Methylene Chloride	200	270	
MW-26	1,2-Dichlorobenzene	1 1	3.10	12/1/90
WW-20	Chlorobenzene	5	15.7	12/1/90
	Tetrachloroethene	1.5	3.02	
	retracmoroemene	1.5	3.02	
MW-27	1,2-Dichlorobenzene	1	7.61	11/1/90
	Chlorobenzene	5	14.98	
1	Tetrachloroethene	1.5	219.4	
1	Trichloroethene	11	135.8	1
CW-3	1,2-Dichlorobenzene	1	5.3	7/27/93
	cis-1,2-Dichloroethene	8	80	1
	Tetrachloroethene	1.5	2.9	[
ll l				
CW-5	1,2-Dichlorobenzene	1	5.6	7/27/93
	1,4-Dichlorobenzene	0.49	0.74	
	cis-1,2-Dichloroethene	8	160	
	Methylene Chloride	200	500	
	Tetrachloroethene	1.5	39	
	Trichloroethene	11	81	
-				
CW-9	Chlorobenzene	5	5.2	7/27/93
CW-11	Chlorobenzene	5	52	7/27/93
				ļ

Page 1 of 2

TABLE 6: WELLS WITH DNAPL COMPOUND CONCENTRATIONS EXCEEDING THE 1% SOLUBILITY CRITERIA*

Former Hexcel Facility Lodi, New Jersey

GEO Engineering, Inc.

July 1995

File: 94039/database/EXCDSOLB.xls

Sheet: Well Data BY: SG; Check: SJA

Well ID	Constituent	1% of Solubility	Concentration	Date of Most Recent
Well ID	Constituent	(mg/L)	(mg/L)	Sampling Sampling
		(Hig/L)	(Hig/L)	Samping
CW-14	Chlorobenzene	5	17	7/28/93
CW-15	Chlorobenzene	5	76	7/27/93
	1,2-Dichlorobenzene	1	4.6	
	cis-1,2-Dichloroethene	8	22	
	Tetrachloroethene	1.5	11	
CW-18	Chlorobenzene	5	16	7/27/93
CW-21	Chlorobenzene	5	11	7/27/93
RW6-1	1,2-Dichlorobenzene	1	27.98	11/1/90
	1,3-Dichlorobenzene	0.69	1.90	
	1,4-Dichlorobenzene	0.49	0.87	
	Chlorobenzene	5	27.98	
	Tetrachloroethene	1.5	2.73	
RW6-2	Chlorobenzene	5	110	7/28/93
	1,2-Dichlorobenzene	1	2.5	
	1,2-Dichloroethane	86.9	180	
	Methylene Chloride	200	250	
	Tetrachloroethene	1.5	5.4	
RW6-3	1,2-Dichlorobenzene	1	28.22	11/1/90
	Chlorobenzene	5	118.3	
	Tetrachloroethene	1.5	52.08	

NOTES

* For the wells which have been sampled more than once, the most recent analytical results have been used for comparison with the solubility criteria.

TABLE 7:	SUMMARY OF WELLS EXCEEDING 1% SOLUBILITY CRITERIA*
	Former Hexcel Facility
	Lodi, New Jersey

GEO Engineering, Inc.

July 1995

File: 94039/database/EXCDSOLB.xls

Sheet: 1% Criteria Wells BY: SG; Check: SJA

1) Wells are already part of the monthly monitoring program:

MW-6	
MW-8	
MW-26	
RW6-1_	

2) Wells are part of the quarterly monitoring program and no DNAPL has been detected for the past three quarters:

MW-4	
MW-10	
MW-17	
MW-18	
MW-22	
MW-27	
CW-14	
RW6-2	

- 3) Wells are not part of the monthly or quarterly monitoring program:
 - a) Wells are not practical to add to the monitoring programs due to the recovery equipment installed in them:

CW-3	
CW-5	
CW-9	
CW-11	
CW-15	
CW-18	
CW-21	

b) Well will be added to the monthly monitoring program:

RW6-	3
IV AA O.	ر.

NOTES

* Criteria set forth by the NJDEP in its June 12, 1995 letter as wells in which one or more compound was detected in excess of 1% of its solubility during the well's most recent round of sampling.

Source:

Killam Associates/Consulting Engineers August 1993 Monthly Progress Report WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 3

CLIENT: Hexcel Corporat	ion		ETKA NO.:	2253	300
SITE LOCATION: Lodi, N	lew Jersey		DATE:	7/2	7/93
NJDEPE CASE NO.: 8600)9	NJDE	PE WELL PERMIT NO).: <u> </u>	26-21221-8
WELL TYPE: Monit	oring - 4 inch	PVC			
GEOLOGIC FORMATION	i:			· - · · · · · · · · · · · · · · · · · ·	
ELEVATION-Top of Casin	ıg: <u>29</u>	<u>.72</u> ft	ELEVATION-Ground	Surface:	ft
TOTAL WELL DEPTH FI	ROM TOC:_!	11.28 ft	DEPTH TO SCREEN	FROM TO	C: ft
*******	*****	*****	*******	*****	******
PURGE INFORMATION					
DEPTH TO WATER FROM	м тос: <u>7.5</u>	<u>6</u> ft	ORGANIC VAPOR RI	EADINGS:	0PPM
DEPTH TO FREE PRODU	JCT: <u>NA</u>	ft	FREE PRODUCT THI	CKNESS:	<u>NA</u> ft
PURGE METHOD: Centris	ugal Pump	· · · · · · · · · · · · · · · · · · ·			
ONE WELL VOLUME:	<u>2.4</u> Gal		TOTAL PURGE VOL	UME:	<u>1.0</u> Gal
PURGE TIME START:	11:18		PURGE TIME FINISH	I:	11:21
DTW AFTER PURGING:	<u>dry</u> ft		PURGE RATE:		0.3 GPM
PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TD	S
1ST VOL	_22°	6.6	970	_860	_
2ND VOL					-
3RD VOL					-
SAMPLING INFORMATION	<u>NC</u> :				
SAMPLE NUMBER:	93-0727-CW	<u>3</u> -	SAMPLE METHOD	PVC Ba	ilor
SAMPLE TIME START:	<u>13:20</u>				
DTW BEFORE SAMPLIN	G <u>7.39</u> ft	DTW	AFTER SAMPLING:		8.38 ft
SAMPLE CHEMISTRIES:	TEMP.(C)	<u>24°</u> pF	H <u>7.6</u> COND(uS) <u>136</u>	60 TDS	
SAMPLE ANALYSIS: <u>VO</u>	A + 15, PCF	3			
FIELD PERSONNEL: Su	ısan Waddell,	George	Spangenberg, Joe Cajiad	o, Inés Torr	es, Dan Flatin
OBSERVATIONS & COM	MENTS:		Well produced only one	volume.	
					·

Source:

Killam Associates/Consulting Engineers August 1993 Monthly Progress Report

WELL SAMPLING LOG

OWNER'S WELL NO.: <u>CW - 5</u>

CLIENT: Hexcel Corporation		ETKA NO.:	225300		
SITE LOCATION: Lodi, New Jersey			DATE:	<u>7/27/9</u> 2	3
NJDEPE CASE NO.: 8600	09	NJDE	PE WELL PERMIT NO).:	
WELL TYPE: Monit	oring - 4 inch	PVC			
GEOLOGIC FORMATION	[:				
ELEVATION-Top of Casin	ig: <u>28.</u>	<u>67</u> ft	ELEVATION-Ground	Surface:	<u>28.89</u> ft
TOTAL WELL DEPTH FI	ROM TOC: <u>9.1</u>	<u>5</u> ft	DEPTH TO SCREEN	FROM TOC:	ft
*********	********	*****	********	******	******
PURGE INFORMATION					
DEPTH TO WATER FROM	м тос: <u>6.27</u>	ft	ORGANIC VAPOR RI	EADINGS:	<u>0</u> PPM
DEPTH TO FREE PRODU	JCT: <u>NA</u>	_ ft	FREE PRODUCT THI	ICKNESS:	<u>NA</u> ft
PURGE METHOD: Centri	fugal Pump				
ONE WELL VOLUME:	<u>1.8</u> Gal		TOTAL PURGE VOL	UME:	<u>7.0</u> Gal
PURGE TIME START:	11:34		PURGE TIME FINISH	H: <u>11:</u> 4	13
DTW AFTER PURGING:	<u>8.73</u> ft		PURGE RATE:	C	0.8 GPM
PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS	
1ST VOL	_24°	_6.8	>2000		
2ND VOL	_25°	_7.3	> 2000		
3RD VOL	_25°	_7.3	>2000		
SAMPLING INFORMATION	: <u>NC</u>				
SAMPLE NUMBER:	93-0727-CW5		SAMPLE METHOD	PVC Bailor	
SAMPLE TIME START:	13:05				
DTW BEFORE SAMPLIN	G <u>6.22</u> ft	DTW	AFTER SAMPLING:		5.27 ft
SAMPLE CHEMISTRIES:	TEMP.(C) _	<u>25°</u> pF	$\frac{7.1}{\text{COND(uS)}} > 2$	2000 TDS	_
SAMPLE ANALYSIS: <u>VO</u>	A + 15, PCB				
FIELD PERSONNEL: Su	ısan Waddell, (George	Spangenberg, Joe Cajiad	o, Inés Torres,	Dan Flatin
OBSERVATIONS & COM	MENTS:				
	11.00				

Source:

Killam Associates/Consulting Engineers August 1993 Monthly Progress Report

WELL SAMPLING LOG

OWNER'S WELL NO.: <u>CW - 9</u>

CLIENT: Hexcel Corporation		ETKA NO.:	225300	
SITE LOCATION: Lodi, New Jersey		DATE:	7/27/93	
NJDEPE CASE NO.: 8600	09NJI	DEPE WELL PERMIT	NO.:	
WELL TYPE: Monit	oring - 4 inch PVC			
GEOLOGIC FORMATION				
ELEVATION-Top of Casin	g: <u>26.37</u> f	t ELEVATION-Groun	nd Surface: _	<u>26.60</u> ft
TOTAL WELL DEPTH FR	ROM TOC: 14.00	ft DEPTH TO SCREE	N FROM TOC: _	ft
********	*******	********	******	******
PURGE INFORMATION				
DEPTH TO WATER FROM	M TOC: <u>8.32</u> ft	ORGANIC VAPOR	READINGS:	<u>0</u> PPM
DEPTH TO FREE PRODUCT: NA ft		FREE PRODUCT T	HICKNESS:	NA ft
PURGE METHOD: Centrif	iugal Pump			·
ONE WELL VOLUME:	<u>2.8</u> Gal	TOTAL PURGE VO	DLUME: _	10.0 Gal
PURGE TIME START:	14:41	PURGE TIME FINI	SH: 14:50	
DTW AFTER PURGING:	<u>9.98</u> ft	PURGE RATE:	1.1	GPM
PURGE CHEMISTRIES:	TEMP(C)	Ph COND(uS)	TDS	
1ST VOL	_24°	.6 1100		
2ND VOL	_25°7	.71160		
3RD VOL	_24°	.7 1230		
SAMPLING INFORMATION	<u>ON</u> :			
SAMPLE NUMBER:	93-0727-CW9	SAMPLE METHOI	D <u>Teflon Bailor</u>	
SAMPLE TIME START:	<u>16:27</u>			
DTW BEFORE SAMPLIN	G <u>8.16</u> ft DT	W AFTER SAMPLING	: <u>8.20</u>	5 ft
SAMPLE CHEMISTRIES:	TEMP.(C) <u>24°</u>	pH 7.7 COND(uS)	1240 TDS	
SAMPLE ANALYSIS: <u>VO</u>	A + 15, PCB		·	
FIELD PERSONNEL: <u>Su</u>	san Waddell, Geor	ge Spangenberg, Joe Ca	iao, Inés Torres, Da	n Flatin
OBSERVATIONS & COM	MENTS:			

Killam Associates/Consulting Engineers August 1993 Monthly Progress Report WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 11

CLIENT: Hexcel Corporation		ETKA NO.:	225300
SITE LOCATION: Lodi, New Jersey		DATE:	7/27/93
NJDEPE CASE NO.: 8600)9 NJ	DEPE WELL PERMIT	NO.:
WELL TYPE: Monit	oring - 4 inch PV	C	
GEOLOGIC FORMATION	•		
ELEVATION-Top of Casin	g: <u>25.74</u>	ft ELEVATION-Grou	and Surface: <u>26.60</u> ft
TOTAL WELL DEPTH F	ROM TOC: 14.00	ft DEPTH TO SCRE	EN FROM TOC: ft
********	******	*******	********
PURGE INFORMATION			
DEPTH TO WATER FROM	M TOC: <u>8.48</u> ft	ORGANIC VAPO	R READINGS:O_PPM
DEPTH TO FREE PRODUCT: NA ft		FREE PRODUCT	THICKNESS: NA ft
PURGE METHOD: Centrif	ugal Pump		
ONE WELL VOLUME:	3.5 Gal	TOTAL PURGE V	OLUME: <u>12.0</u> Gal
PURGE TIME START:	14:25	PURGE TIME FIN	VISH: <u>14:32</u>
DTW AFTER PURGING:	<u>8.64</u> ft	PURGE RATE:	1.7 GPM
PURGE CHEMISTRIES:	TEMP(C)	Ph COND(uS)	TDS
1ST VOL	_24°	.01590	
2ND VOL	_24°	.1 1790	
3RD VOL	<u>24°</u> <u>6</u>	.9 >2000	
SAMPLING INFORMATION	<u>ON</u> :		
SAMPLE NUMBER: 9	93-0727-CW11	SAMPLE METHO	DD <u>Teflon Bailor</u>
SAMPLE TIME START:	16:15		
DTW BEFORE SAMPLIN	G <u>7.49</u> ft D	TW AFTER SAMPLIN	G: <u>7.49</u> f
SAMPLE CHEMISTRIES:	TEMP.(C) <u>24°</u>	pH <u>7.4</u> COND(uS)	<u>1330</u> TDS
SAMPLE ANALYSIS: <u>VO</u>	A + 15, PCB		
FIELD PERSONNEL: Su	isan Waddell, Geo	rge Spangenberg, Joe C	ajiao, Inés Torres, Dan Flatin
OBSERVATIONS & COM	MENTS:		
**************************************	····		

Note regarding CW-15 Well Sampling Log:

There appears to be an error in the measurement of depth to free product, as it is greater than the depth of the well. In a subsequent monitoring event on August 20, 1993, no DNAPL was detected at the well (see attached DNAPL Monitoring Form). The well contains ground water recovery equipment which is difficult to remove; therefore, monitoring data are limited. Available data indicate that no DNAPL has been detected in the well since August 1990.

HEXCEL PROJECT, LODI, NJ DNAPL MONITORING FORM

Well No.	TOC Elevation (ft, NJVD)	Depth to Water (ft)	Depth to DNAPL	Total Well Depth (From TOC)	Water Elevation (ft, NJVD)	Thickness of DNAPL	Time of Day	Remarks
CW-3	29.72	6.94	ND	11.28	22.78		10:39	
CW-4	29.00	6.33	ND	10.86	22.67		10:27	
CW-5	28.67	6.05	ND	9.15	22.62		10:23	
CW-14	26.37	7.86	ND	13.74	18.51		11:45	
CW-15	26.31	7.85	ND	11.80	18.46		11:52	
CW-16	26.45	7.80	₄ 11.24	13.74	18.65	2.50	11:53	Approximately 3 gallons of DNAPL were recovered on September 17, 1993 via pumping.
CW-18	26.61	7.44	ND	13.75	19.17		12:06	· ·

Note: The Total Well Depth (From TOC) will be determined during the first monitoring episode.

CHECKED BY:	, DATE:

Page 2 of 2

Source: Killam Associates/Consulting Engineers August 1993 Monthly Progress Report

Source: Killam Associates/Consulting Engineers August 1993 Monthly Progress Report

WELL SAMPLING LOG

OWNER'S WELL NO.: <u>CW - 15</u>

CLIENT: Hexcel Corporation		ETKA NO.:	225300
SITE LOCATION: <u>Lodi, New</u>	Jersey	DATE:	7/27/93
NJDEPE CASE NO.: <u>86009</u>	NJDEI	PE WELL PERMIT NO).:
WELL TYPE: Monitoria	ng - 4 inch PVC		
GEOLOGIC FORMATION:			· · · · · · · · · · · · · · · · · · ·
ELEVATION-Top of Casing:	<u>26.31</u> ft	ELEVATION-Ground	Surface: <u>26.90</u> ft
TOTAL WELL DEPTH FROM	M TOC: 11.80 ft	DEPTH TO SCREEN	FROM TOC: ft
********	********	********	*******
PURGE INFORMATION			
DEPTH TO WATER FROM T	ГОС: <u>8.49</u> ft	ORGANIC VAPOR RI	EADINGS: <u>0</u> PPM
DEPTH TO FREE PRODUCT	: <u>12.86</u> ft	FREE PRODUCT THI	CKNESS: ???? ft
PURGE METHOD: Centrifuga	al Pump		
ONE WELL VOLUME: 2	<u>.1</u> Gal	TOTAL PURGE VOL	UME: <u>6.0</u> Gal
PURGE TIME START: 14	<u>1:09</u>	PURGE TIME FINISH	H: <u>14:14</u>
DTW AFTER PURGING: <u>1</u>	<u>0.70</u> ft	PURGE RATE:	1.2 GPM
PURGE CHEMISTRIES: T	EMP(C) Ph	COND(uS)	TDS
1ST VOL	21° 8.0	690	Andrews State Control of the Control
2ND VOL	20° 7.7	630	
3RD VOL	20°	_630	
SAMPLING INFORMATION	:		
SAMPLE NUMBER: 93-0)727-CW15	SAMPLE METHOD	Teflon Bailor
SAMPLE TIME START: 15	<u>5:57</u>		
DTW BEFORE SAMPLING <u>8</u>	<u>1.13</u> ft DTW	AFTER SAMPLING:	8.58 ft
SAMPLE CHEMISTRIES: T	EMP.(C) <u>21°</u> pF	I <u>8.4</u> COND(uS) <u>600</u>	<u>)</u> TDS
SAMPLE ANALYSIS: <u>VOA -</u>	+ 15, PCB	· · · · · · · · · · · · · · · · · · ·	
FIELD PERSONNEL: Susan	Waddell, George	Spangenberg, Joe Cajiad	o, Inés Torres, Dan Flatin
OBSERVATIONS & COMME	ENTS:		77914

Source:

Killam Associates/Consulting Engineers August 1993 Monthly Progress Report WELL SAMPLING LOG

Ì

OWNER'S WELL NO.: CW - 18

CLIENT: <u>Hexcel Corporat</u>	ion		ETKA NO.:	225300	
SITE LOCATION: <u>Lodi, N</u>	lew Jersey		DATE:	<u>7/27/93</u>	
NJDEPE CASE NO.: <u>860</u>	09	NJDE	PE WELL PERMIT N	O.:	
WELL TYPE: Monit	oring - 4 inch	PVC			
GEOLOGIC FORMATION	[:				
ELEVATION-Top of Casin	ıg: <u>26.</u>	<u>61</u> ft	ELEVATION-Ground	l Surface:	<u>27.20</u> ft
TOTAL WELL DEPTH FI	ROM TOC:_1	3.75 ft	DEPTH TO SCREEN	FROM TOC:	ft
********	******	*****	******	******	******
PURGE INFORMATION					
DEPTH TO WATER FRO	м тос: <u>7.70</u>	ft	ORGANIC VAPOR	READINGS: _	0 PPM
DEPTH TO FREE PRODU	JCT: <u>NA</u>	_ ft	FREE PRODUCT TH	HICKNESS: _	<u>NA</u> ft
PURGE METHOD: Centri	fugal Pump	····			
ONE WELL VOLUME:	<u>3.9</u> Gal		TOTAL PURGE VO	LUME:	13.0_ Gal
PURGE TIME START:	13:40		PURGE TIME FINIS	SH: <u>13:50</u>	
DTW AFTER PURGING:	<u>8.75</u> ft		PURGE RATE:	1.	.3 GPM
PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS	
1ST VOL	_29°	7.8	_1230		
2ND VOL	_27°	7.2	_1080		
3RD VOL	_28°	7.1	1210		
SAMPLING INFORMATION	<u>ON</u> :				
SAMPLE NUMBER:	93-0727 - CW18	1	SAMPLE METHOD	Teflon Bailor	
SAMPLE TIME START:	<u>15:30</u>				
DTW BEFORE SAMPLIN	G <u>7.66</u> ft	DTW	AFTER SAMPLING:	_7	<u>.69</u> ft
SAMPLE CHEMISTRIES:	TEMP.(C)	<u>25°</u> pI	H <u>7.6</u> COND(uS) <u>9</u>	10 TDS	
SAMPLE ANALYSIS: <u>VO</u>	A + 15, PCB	 		·	
FIELD PERSONNEL: Su					
OBSERVATIONS & COM	MENTS:		· · · · · · · · · · · · · · · · · · ·		
		· · · · · · · · · · · · · · · · · · ·			

Source: 'Killam Associates/Consulting Engineers August 1993 Monthly Progress Report

WELL SAMPLING LOG

OWNER'S WELL NO.: <u>CW - 21</u>

CLIENT: <u>Hexcel Corpora</u>	tion	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ETKA NO.:	225300	
SITE LOCATION: <u>Lodi, N</u>	Vew Jersey		DATE:	<u>7/27/93</u>	
NJDEPE CASE NO.: <u>860</u>	09	NJDE	PE WELL PERMIT NO.	: <u></u>	
WELL TYPE: Moni	toring - 4 inch	PVC_			
GEOLOGIC FORMATION	l:				
ELEVATION-Top of Casin	ng: <u>26.</u>	<u>77</u> ft	ELEVATION-Ground S	urface:	<u>27.40</u> ft
TOTAL WELL DEPTH F	ROM TOC: <u>1</u>	4.00 ft	DEPTH TO SCREEN F	ROM TOC:	f
********	·**********	*****	*******	******	******
PURGE INFORMATION					
DEPTH TO WATER FRO	M TOC: <u>7.89</u>	ft	ORGANIC VAPOR RE	ADINGS: _	0 PPM
DEPTH TO FREE PRODU	JCT: <u>NA</u>	_ ft	FREE PRODUCT THIC	KNESS: _	<u>NA</u> f
PURGE METHOD: Centri	fugal Pump		······································		·
ONE WELL VOLUME:	<u>1.0</u> Gal		TOTAL PURGE VOLU	ME:	4.0_ Ga
PURGE TIME START:	15:00		PURGE TIME FINISH:	15:0)6
DTW AFTER PURGING:	<u>7.95</u> ft		PURGE RATE:	0.	.7 GPM
PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS	
1ST VOL	_28°	_7.6	1570		
2ND VOL	_29°	7.5	1640		
3RD VOL	_30°	7.2	1670		
SAMPLING INFORMATI	<u>ON</u> :				
SAMPLE NUMBER:	93-0727-CW21		SAMPLE METHOD _	<u>Teflon Bailor</u>	
SAMPLE TIME START:	<u>15:23</u>				
DTW BEFORE SAMPLIN	G 7.89 ft	DTW	AFTER SAMPLING:		<u>8.77</u> f
SAMPLE CHEMISTRIES:	TEMP.(C)_	<u>25°</u> pF	H <u>8.4</u> COND(uS) <u>1080</u>) TDS	
SAMPLE ANALYSIS: <u>VC</u>	A + 15, PCB		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
FIELD PERSONNEL: <u>S</u> 1	ısan Waddell,	George	Spangenberg, Joe Cajiao,	Inés Torres,	Dan Flatin
OBSERVATIONS & COM	MENTS:				

Appendix E

882810043

TABLE 8: SUMMARY OF PRODUCT COLLECTION

Former Hexcel Facility Lodi, New Jersey

All Quantities Expressed in Gallons

GEO Engineering, Inc.

July 1995

File: 94039\prodcoll\prodcol2.xls

By: SJA Check: SG

DATE	MW-6 (DNAPL)	MW-8 (DNAPL)	MW-26 (DNAPL)	RW6-1 (DNAPL)	RW7-1 (DNAPL)	RW7-4 (DNAPL)	CW-12 (DNAPL)	CW-16 (DNAPL)	CW-7 (LNAPL)	TOTAL VOLUME RECOVERED
4/10/95	0.2		trace	trace		trace	trace		trace	
4/26/95	0.8		•••••••						trace] ,
4/28/95 *	0.1		***************************************]
5/1/95 *	0.1		••••••]
5/10/95	0.1		~·						trace	
5/22/95	0.2					*******************************			trace] '
6/6/95	0.1				trace				trace]
6/20/95	0.1							0.1	trace	
6/28/95	0.1							trace	0.4	
TOTAL VOLUME RECOVERED, 2nd QUARTER, 1995	1.8	0.0	trace	trace	trace	trace	trace	0.1	0.4	2.3
TOTAL VOLUME RECOVERED, 10/94 - 3/95	4.6	1.0	0.1	trace	trace	trace	0.6	0.2	trace	6.5
TOTAL VOLUME RECOVERED	6.4	1.0	0.1	trace	trace	trace	0.6	0.3	0.4	8.8

Quantities less than 1 Cup are defined as "trace" and are not included in totals. All quantities are rounded to the nearest 0.1 gallons. The quantities given for "TOTAL VOLUME RECOVERED, 10/94 - 3/95", have been modified to comply with these criteria.

Notes:	*	Product recovery on 4/28/95 and 5/1/95 was performed above and beyond the frequency specified in the proposed recovery pla
		and was only performed at MW-6.
		Blank cell indicates well not included in recovery round because monitoring did not indicate the presence of recoverable produc

Appendix F

Appendix F

The following table summarizes all disposal documentation for April, May and June 1995. Copies of the manifests are included.

Date Accepted at Disposal Facility (unless indicated otherwise)	State Manifest Document Number	Quantity	Comments
4/13/95	NJA 2074684	3,875 gallons	Treated ground water
5/11/95	MN7304306	18,390 lbs. (estimated)	Spend carbon, PPE, filters and pads, excavated soil
5/11/95	MN7304307	4,716 gallons	Sludge generated by treatment system

Note that manifests are arranged in order of increasing State Manifest Document Numbers.



State of New Jersey Department of Environmental Protection and Energy Hazardous Waste Regulation Program Manifest Section CN 421, Trenton, NJ 08625-0421

4002 (3 (8)

WASTE MANIFEST	1. Generator's US EPA ID No.		anifest ment No.	2. Page 1	is not	required.	ne shaded area by Federal law	
Generator's Namerand Mailing Address 205 MAW 07644 Generator's Phone (Transporter 1 Company Name (106 Abb (106 Abb (107 Abb (108 A	Cel Corp 6800	S EPA ID Number		B. State	Generator's JE	-(Gen S	4684	
Fransporter Company Name A Designated Facility Name and Sile Address	i THE WIDE	SEPAID Number	164	D. Transi	Frans (D:NUD Decal N oorter's Phone Frans: ID NUD		42/0	
THE PLAN STIRE PH		02365	730	G. State	Decal Norter's Phone acility's ID s Phone (4 10 4	<u>40-27</u>	 77
US DOT Description (Including Proper Shipping ID Number and Packing Community and Packing Community Including Proper Shipping Community Include I	g Name, Hazard Class or Divisio. Group)	n,	No.	Type	. 13. Total Quantity	Unit Wt/Vol	l. Waste No.	
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RQ HAZARDONS WASKS	1/F001, F003)	001	77 X	3871	56	FOO	12
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Additional Descriptions for Materials Elisted About Topol J. Food J. 797% Vol. Milk CRANA K. 1%	5.501.D9	"Care at Experience and		K. Handl	ing Codes for	Wastes I	isted Above	
5. Special Handling Instructions and Additional In		EPG#3	1	0.		170.		
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UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N J D 9 B 6 5 B 4 1	Document No. 3 4 F694P	of require sota ru	ation in shaded area not d by Federal law. Minne- les require Items H. and I.
3. Generator's Name and Mailing Address HEXCEL CORPORATION 205 MAIN STREET; LODI, N. 4. Generator's Phone (2087544200) 5. Transporter 1 Company Name(\$70)	from mailing address.) 07644 County: 4000 6 US EPA I	D Number	A. State Manifest I MN 7304 B. State Generator C. State Transport	1306 s ID
NAPPI TRUCKING CORP 7. Transporter 2 Company Name	1.14	8 1 3 4 7 7 D Number	D. Transporter's E. State Transporte	86 200 /566-3000
7. Transporter 2 Company Name		o Number	F. Transporter's Ph	
9. Designated Facility Name and Site A		D Number	G. State Facility's I	D
APTUS INC LAKEVILLE 21750 CEDAR AVENUE	The second secon		H. Facility's Phone	
LAKEVILLE, MN 55044	M N D 9 8 1	1-9-0-2-4-2		
11. US DOT Description (Including Proper	Shipping Name, Hazand Class, and ID Nu		Total	14. Unit Wt/Vol Waste No.
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E b. RQ-HAZARDOUS WASTE	SOLID. NOS	// 11E NO2	7777	D008 D021
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7 c. RQ-HAZARDOUS WASTE	COLLEGE NATE	77 III XX3	m K/890	F002 F003
	CHLOROBENZENE) (F003)		257	D F002 F003
9	NA30	77 111 1/3	ON X2085	1/ F005
d.				
J. Additional Descriptions for Materials I	isted About		K Handling Cada	for Wastes Listed Above
a) AP112430 F003 F005 b) AP112433 F005 c) AP112431				
15. Special Handling Instructions and Ac 729726 Exergency Response		31 b) 31 c)	31	And the second of the second o
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threat to human health and the environment, or, if management method that is available to nie and	lam a small quantity generator, I have made that I can afford. Signature Signature	a good faith effort to m	inimize my waste gener	ation and select the best waste Date Month, Day Year
Kevin M. Gree	ener the	SM. Au	<u> </u>	105109195
T 17. Transporter 1 Acknowledgement of		1		Date
Printed/Typed Name,	Signature	VON T	amme	Month Day Year
0 18. Transporter 2 Acknowledgement of			739	Date
Printed/Typed Name	Signature			Month Day Year
19. Discrepancy Indication Space.			·	
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20. Facility Owner or Operator: Certifica	tion of receipt of hazardous materi	als covered by this	manifest except as	noted in
Т	Cianata		· ·	Date Month Day Year
Y Rrinted/Typed Name	Signature		/ \	D 5 11 1 1 9 1
Minnesota Form PQ-00371-04 (9/90)	(Previous editions obso	total	, ,	

(Previous editions obsolete)

Please TYPE (Form designed for use on elite (12-pitch) typewriter) or print LEGIBLY. Instructions on cover page.

OMB No. 2050-0039 EXPIRES 9/30/96

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İſ	3	3. Ger	nerator's Name and Mailing Addr	ess (Also location of wa	aste generation if diff	erent	A. State	Manifest Do	cumer	t Number	
H	ı	HEXC	CEL CORPORATION	from mailing addr	ess.)		MN	7304	30	(_~	
П			MAIN STREET; LODI, N	J 07644			B. State	Generator's	ID N	PUELE	paratric
}			nerator's Phone (7087564)200	County:	(Ä			•
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			I TRUCKING CORP		D O O O B 1		D Tran	sporter's Pho	ne 20		000
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In case of spill or emergency, immediately call the Minnesota Duty Officer (the Minnesota Pollution Control Agency) at 800/422-0798 or 612/649-5451 and the National Response Center at 800/424-8802. Ourside Minnesota, call the National Response Center and appropriate state agency.

Appendix G

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150 Mineral Spring Drive Dover, New Jersey 07801 201 361-3600 FAX 361-3800

June 30, 1995

Reginald Perry US Army Corps of Engineers Passaic River Division 80 River Street Hoboken, NJ 07030

7

SUBJ: Request for Data and Access

Monitoring Wells Installed by the US Army Corps of Engineers
Lower Saddle River Flood Control Project
Lodi, New Jersey

Dear Mr. Perry:

This letter is a request for well construction data, chemical analysis data, and permission to sample monitoring wells installed by the US Army Corps of Engineers (Army Corps) in Lodi, New Jersey. The requested information will help us evaluate the feasibility of using the wells for off-site investigation. We spoke with Mr. Jim Hill of the Real Estate Division and Mr. Richard Jackson of the Passaic River Division regarding this matter, and they suggested that we make a request in writing to the Army Corps and provide background information.

GEO Engineering is the environmental consultant for Hexcel Corporation (Hexcel), former owner of Fine Organics property in Lodi, New Jersey. This facility is under ISRA investigation by the New Jersey Department of Environmental Protection (NJDEP). Hexcel has been asked to provide information concerning ground water samples that may have been obtained from properties located on the opposite side of the Saddle River from the former Hexcel site.

GEO Engineering located a monitoring well on the property across the Saddle River from the Hexcel site. This property (Block 69, Lot 1-14) is owned by C&J Rental and Maintenance and operated as Bridgeview II Auto Detailing. GEO Engineering initially approached Mr. Charles Pinto, the owner of the property regarding the monitoring well. He told us that the well was installed by the Army Corps and indicated that there may be more than one well on the property.

We request that the Army Corps provide well construction details and any past testing data for the wells. Well construction details will help us determine if any of the wells are constructed to meet NJDEP requirements for off-site investigation. We request the opportunity to sample the wells only if the well construction meets NJDEP technical

requirements and in the event that chemical data from the wells are either not available or are insufficient to meet NJDEP technical requirements. In our conversation with the property owner, he had indicated that he would not have any problems with GEO Engineering sampling the wells, if needed.

We look forward to your review of our request. Please call us if you have any questions regarding the above or need any further information.

Sincerely,

GEO ENGINEERING, INC.

Sumla Gupla Sunila Gupla Project Engineer

Marjorie A. Piette Project Manager

SG/MAP/avm

cc: A

A. William Nosil Lisa Bromberg, Esq. Appendix H

TABLE 9. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES Former Hexcel Facility Lodi, New Jersey

1995

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TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
GROUND WATER REMEDIATION												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain permits for sewer construction												
Stream-encroachment permit												
Local permits												
Construct new sewer line							<u> </u>					
Conduct testing					<u> </u>							
Conduct hydraulic testing					<u></u>			<u> </u>				
Pilot test of recovery system												
Test ground water off-site											<u> </u>	<u>↓</u> _
Obtain off-site access or data										************		
Modify design of ground water recov sys		<u> </u>	<u> </u>	ļ								
Prep. design proposal for recov. sys.		ļ					L	<u> </u>				<u> </u>
NJDEP review of design proposal	<u> </u>					ļ	ļ			<u> </u>		↓
Install permanent recovery system					<u> </u>			<u> </u>				<u> </u>
Operate and maintain recovery system							L					<u> </u>
Evaluate need for DNAPL barrier	ļ				L				ļ			Ь—
Bedrock ground water invest. (MW-1)	ļ							<u> </u>		<u> </u>		<u> </u>
CLEANING OF SEWER LINE									_			
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris					<u> </u>							<u> </u>
SOIL REMEDIATION *												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Conduct pilot test (incl. lab. analysis)	Ļ					<u> </u>	<u> </u>			<u> </u>	<u> </u>	
Design air sparging/vapor ext. system					L						<u> </u>	
Obtain permits								<u> </u>			L	
Install soil remediation system											<u> </u>	
Operate and maintain system						ļ						
SEDIMENT SAMPLING												
Collect samples (and lab. analysis) *												
REPORTING												
Prepare quarterly progress reports												
Prepare report of sediment sampling *											Ι	T
Prepare final report												
NJDEP review and site inspection												\top
Case closure						I	1	1				1

^{*} Due to Napp explosion, soil investigation and sediment sampling are being held in abeyance pending receipt of results from Napp.

TABLE 9. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES Former Hexcel Facility Lodi, New Jersey

1996

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TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
GROUND WATER REMEDIATION												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain permits for sewer construction												
Stream-encroachment permit												
Local permits												
Construct new sewer line												
Conduct testing												
Conduct hydraulic testing												
Pilot test of recovery system				<u></u>								
Test ground water off-site												
Obtain off-site access or data						<u> </u>						
Modify design of ground water recov sys						<u> </u>						
Prep. design proposal for recov. sys.												
NJDEP review of design proposal												
Install permanent recovery system												
Operate and maintain recovery system		<u> </u>										
Evaluate need for DNAPL barrier	<u> </u>			ļ		ļ						
Bedrock ground water invest. (MW-1)												
CLEANING OF SEWER LINE						3					•	
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
SOIL REMEDIATION *												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Conduct pilot test (incl. lab. analysis)							L					
Design air sparging/vapor ext. system										ļ		
Obtain permits			<u> </u>		<u> </u>		L			<u> </u>		
Install soil remediation system					<u> </u>	<u></u>						
Operate and maintain system			<u> </u>		<u> </u>						<u> </u>	
SEDIMENT SAMPLING					<u> </u>							
Collect samples (and lab. analysis) *												
REPORTING												
Prepare quarterly progress reports												
Prepare report of sediment sampling *												
Prepare final report												
NJDEP review and site inspection												
Case closure	i							T				

Due to Napp explosion, soil investigation and sediment sampling are being held in abeyance pending receipt of results from Napp.

TABLE 9. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES Former Hexcel Facility Lodi, New Jersey

1997

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TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
GROUND WATER REMEDIATION												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain permits for sewer construction												
Stream-encroachment permit												
Local permits												
Construct new sewer line												
Conduct testing												
Conduct hydraulic testing												
Pilot test of recovery system	<u> </u>	<u> </u>	<u></u>									
Test ground water off-site		<u></u>										
Obtain off-site access or data												
Modify design of ground water recov sys	<u> </u>	<u> </u>		ļ								
Prep. design proposal for recov. sys.												
NJDEP review of design proposal				ļ	ļ							
Install permanent recovery system												
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Bedrock ground water invest. (MW-1)							<u> </u>					
CLEANING OF SEWER LINE												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
SOIL REMEDIATION *												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Conduct pilot test (incl. lab. analysis)			<u> </u>									
Design air sparging/vapor ext. system		L										
Obtain permits			·									
Install soil remediation system												
Operate and maintain system												
SEDIMENT SAMPLING												
Collect samples (and lab. analysis) *												
REPORTING												
Prepare quarterly progress reports												
Prepare report of sediment sampling *									<u> </u>		1	
Prepare final report	1											
NJDEP review and site inspection											1	1
Case closure			 		 		t			 	t	

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TABLE 9. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES Former Hexcel Facility Lodi, New Jersey

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1998

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TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
GROUND WATER REMEDIATION												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												l
Obtain permits for sewer construction						<u> </u>	<u> </u>					
Stream-encroachment permit				<u> </u>				<u> </u>				<u> </u>
Local permits												L
Construct new sewer line			ļ									<u> </u>
Conduct testing							<u> </u>					<u> </u>
Conduct hydraulic testing	L											
Pilot test of recovery system			<u> </u>									
Test ground water off-site		<u> </u>		ļ	<u> </u>		<u> </u>					
Obtain off-site access or data												
Modify design of ground water recov sys					<u></u>			<u> </u>				<u> </u>
Prep. design proposal for recov. sys.						ļ	.					
NJDEP review of design proposal		-					ļ					
Install permanent recovery system					000000000000000000000000000000000000000		***************************************		************		***********	9900000000000
Operate and maintain recovery system												
Evaluate need for DNAPL barrier	ļ	ļ			<u> </u>							
Bedrock ground water invest. (MW-1)					<u> </u>	 						<u> </u>
CLEANING OF SEWER LINE												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
SOIL REMEDIATION *												
Soil investigation		,										
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Conduct pilot test (incl. lab. analysis)					<u> </u>							
Design air sparging/vapor ext. system												
Obtain permits								<u></u>				
Install soil remediation system						<u> </u>						
Operate and maintain system												
SEDIMENT SAMPLING												
Collect samples (and lab. analysis) *												
REPORTING												
Prepare quarterly progress reports												
Prepare report of sediment sampling *												
Prepare final report											1	
NJDEP review and site inspection												
Case closure								<u> </u>			T	

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TABLE 9. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES Former Hexcel Facility Lodi, New Jersey

1999

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TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
GROUND WATER REMEDIATION												
DNAPL/LNAPL recovery (temporary)	$ldsymbol{ldsymbol{ldsymbol{eta}}}$											
Recover water from basement Bldg. 1												
Obtain permits for sewer construction												
Stream-encroachment permit	<u> </u>											
Local permits												
Construct new sewer line												
Conduct testing												
Conduct hydraulic testing												
Pilot test of recovery system												
Test ground water off-site		ļ			<u> </u>							
Obtain off-site access or data	<u> </u>	<u> </u>										
Modify design of ground water recov sys												
Prep. design proposal for recov. sys.	<u> </u>											
NJDEP review of design proposal		<u> </u>										
Install permanent recovery system					**************					•		
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Bedrock ground water invest. (MW-1)		 			<u> </u>							
CLEANING OF SEWER LINE												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)		L										
Disposal of sludge/debris												
SOIL REMEDIATION *												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan						<u> </u>				L		
Conduct pilot test (incl. lab. analysis)						ļ						L
Design air sparging/vapor ext. system	ļ	ļ			<u></u>	<u> </u>				<u> </u>	ļ	
Obtain permits		<u> </u>		<u> </u>	<u> </u>	<u> </u>						
Install soil remediation system		<u> </u>			<u> </u>	 						
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SEDIMENT SAMPLING								,				
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REPORTING												
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Prepare final report												
NJDEP review and site inspection												
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